CIVIL QUALITY CONSULTANTS & ENGINEERS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)
An ISO 9001: 2015 Certified Company
NABL Accredited As Per ISO/IEC : 17025:2005 Laboratory

JAS-ANZ
ISO 9001:2000 CERTIFIED

Job No.: CQCE/BBMP/CSR/W.No.16/2019-20 Date: 25.07.2019

TEST REPORT

CLIENT	:	**Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.
AGENCY	:	**Sri. T. Chandra Shekar Reddy,** Contractor, Bangalore.
NAME OF THE WORK	:	Providing of Solid Waste Management in Jalahalli Ward No.16, BBMP, Bangalore.
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part -5)	130 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	425 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	28.50 %	-

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Job No.: CQCE/BBMP/CSR/W.No.16/2019-20 Date : 25.07.2019

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.
Agency : **Sri. T. Chandra Shekar Reddy,** Contractor, Bangalore.
Name of Work : Providing of Solid Waste Management in Jalahalli Ward No.16, BBMP, Bangalore.
Date of Testing : 25.07.2019
Material : Sand Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	65	6.50	6.50	93.5	90-100
2.36	150	15.00	21.50	78.5	75-100
1.18	125	12.50	34.00	66.0	55-90
600 Micron	235	23.50	57.50	42.5	35-59
300 Micron	185	18.50	76.00	24.0	8-30
150 Micron	175	17.50	93.50	6.5	0-10

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Job No.: CQCE/BBMP/CSR/W.No.16/2019-20 Date : 25.07.2019

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.
Agency : **Sri. T. Chandra Shekar Reddy,** Contractor, Bangalore.
Name of Work : Providing of Solid Waste Management in Jalahalli Ward No.16, BBMP, Bangalore.
Date of Testing : 25.07.2019
Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	155	1.03	1.03	98.97	95-100
20	8130	54.20	55.23	44.77	30-70
10	2985	19.90	75.13	24.87	10-35
4.75	3215	21.43	96.57	3.43	0-5

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Job No.: CQCE/BBMP/CSR/W.No.16/2019-20

Date : 25.07.2019

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.
Agency : **Sri. T. Chandra Shekar Reddy,** Contractor, Bangalore.
Name of Work : Providing of Solid Waste Management in Jalahalli Ward No.16, BBMP, Bangalore.
Date of Testing : 25.07.2019
Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	185	3.7	3.7	96.3	95-100
10	2125	42.5	46.2	53.8	25-55
4.75	2365	47.3	93.5	6.5	0-10

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Job No.: CQCE/BBMP/NDS/W.No.99/2019-20 Date: 24.08.2019

TEST REPORT ON CEMENT MORTAR CUBES

Client : **Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.

Contractor : **Sri. T. Chandra Shekar Reddy,** Contractor, Bangalore.

Name of the work : Providing of Solid Waste Management in Jalahalli Ward No.16, BBMP, Bangalore.

Sample ID : Cement Mortar

Size of cubes : 50mmx50mmx50mm

Cross Sectional Area : 2500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008) & IS: 2250-1981

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.07.2019	24.08.2019	0.782	135.2	54.08
2	27.07.2019	24.08.2019	0.795	136.8	54.72
3	27.07.2019	24.08.2019	0.776	134.7	53.88

Note:

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Job No.: CQCE/BBMP/CSR/W.No.16/2019-20

05.08.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.

Agency : **Sri. T. Chandra Shekar Reddy,** Contractor, Bangalore.

Name of the work : Providing of Solid Waste Management in Jalahalli Ward No.16, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.07.2019	05.08.2019	8.139	266.3	11.84
2	29.07.2019	05.08.2019	8.129	272.4	12.11
3	29.07.2019	05.08.2019	8.121	286.7	12.74

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Job No.: CQCE/BBMP/CSR/W.No.16/2019-20

26.08.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.

Agency : **Sri. T. Chandra Shekar Reddy,** Contractor, Bangalore.

Name of the work : Providing of Solid Waste Management in Jalahalli Ward No.16, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.07.2019	26.08.2019	8.198	396.5	17.62
2	29.07.2019	26.08.2019	8.178	381.5	16.96
3	29.07.2019	26.08.2019	8.185	372.6	16.56

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